



OIPE

RAW SEQUENCE LISTING

DATE: 05/19/2003

PATENT APPLICATION: US/10/085,418E

TIME: 14:13:37

Input Set : N:\jumbos\10085418\PTOMS.txt

Output Set: N:\CRF4\05192003\J085418E.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

- 4 (i) APPLICANT: ZENECA LIMITED ., . .
- 5 (ii) TITLE OF INVENTION: GENE SILENCING
- 6 (iii) NUMBER OF SEQUENCES: 3
- 7 (iv) CORRESPONDENCE ADDRESSES:
 - 8 (A) ADDRESSEE: IP DEPT., ZENECA AGROCHEMICALS
 - 9 (B) STREET: HEALOTTS HILL RESEARCH STATION,
 - 10 (C) CITY: BRACKNELL,
 - 11 (D) STATE: BERKSHIRE
 - 12 (E) COUNTRY: UNITED KINGDOM
 - 13 (F) ZIP: RG42 6ET
- 14 (v) COMPUTER READABLE FORM:
 - 15 (A) MEDIUM TYPE: Floppy disk
 - 16 (B) COMPUTER: IBM PC compatible
 - 17 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - 18 (D) SOFTWARE: Patent In Release #1.0, Version #1.25
- 19 (vi) CURRENT APPLICATION DATA:

C--> 20 (A) APPLICATION NUMBER: US/10/085,418E

C--> 21 (B) FILING DATE: 28-Feb-2002

22 (C) CLASSIFICATION:

23 (viii) ATTORNEY/AGENT INFORMATION:

24 (A) NAME: Kakeruda, Mary

25 (ix) TELECOMMUNICATION INFORMATION:

26 (A) TELEPHONE: 919-765-5071

27 (2) INFORMATION FOR SEQ ID NO: 1:

28 (i) SEQUENCE CHARACTERISTICS:

29 (A) LENGTH: 361 base pairs

30 (B) TYPE: nucleic acid

31 (C) STRANDEDNESS: double

32 (D) TOPOLOGY: linear

33 (ii) MOLECULE TYPE: RNA (genomic)

34 (iii) SYNTHETICAL: NO

35 (iv) ANTI-SENSE: NO

36 (vi) ORIGINAL SOURCE:

37 (A) ORGANISM: 1-AMINO CYCLOPROPANE-1-CARBOXYLIC ACID
38 OXIDASE

39 (vii) IMMEDIATE SOURCE:

40 (A) CLONE: pTOM1-

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47 TTTAGGAAAA GGTTTTGAAT TGAATATTTT TTTTITGTA GAAAAAAGTT TAGGACTCTA 240
48 TAAATAGAGG CATGTTGCTT CTAACCTAAT TACCATTCAC AATGTAGITT TAAAGGCTTT 300
49 GAGAGTTTTT GTTAGAGCGA GAATTTGSPA ACCTCTCATG TATTCTGAAT GAATTGTTG 360
50 AGGTGTGTTT CTCTGTAAT TTGTACTGTC ATGTTATAG TGGATTTGCT ATTTCTTTG 420
51 TGGACGTAGT TCGATTGACG GAACCACTTT AAATTTTTGT GTCCTTTGCT ATATTTCCTG 480
52 TTCTTTTATC TGTGCTGCTT TCGAGGTTTG CTTTGCTAGC TTCTGCTTTT ACACCTGCTT 540
53 ATTTTCGGCT CTAACAAGTG GTATCAGAGC CAGATTCAT AATGAGTCA GGTGATGCT 600
54 TTCTGATATC GATGATGAA CCAAGTTA GAAGAGGTTT CATCTGAGC GGTGATGCT 660
55 TAGGCTCAAC CTGTTTGAAC TTAATGAGG TTTTGAAGA GAAATTTGTT CAGAGAGGTT 720
56 CTCTGTGTTG AGACATAAAT TTTGTAAGG AGATTTATGA GAGAGAGAGC AAGTTGTTGA 780
57 AGATTAAATG AAGAAGGTTG ACAAATCTAT TTGTCAGAA ATTCAGGCA AGGCTGAT 840
58 TTGTTGGGTT TTATTTGCTT TGATTTTTTA CCATAAATAG GTTTTCCTTT AAGGAAAAAG 900
59 TTTTGAATTG ACTATTTCTT TTTTGTAGG AAAAGGTTTA GGATTCATTA AATAGAGGCA 960
60 TGTTCTTTCT AACTTAATTA GCATTCACAA TGTAGTTTTA AGGCTTTTGA GAGTTTGTGT 1020
61 TAGAGGAGAG ATTTGTGAAC CTCTCATGTA TTCTGAGTGA ATGGGTTGAG GTTGTTCCTT 1080
62 TCTGTATTTT TACTCTCAT GTTTATAGTG GATTCCTCAT TTCTTTGTG GAGTGAAGT 1140
63 GATTGACCGA ACCACGTAAA ATCTTTGTGT CTTTGCTAT ATTTCTCTTT GTCTTCTTAC 1200
64 TCGTGTGCTT TCGAGGTTTG CTTTGCTAGC TTGGGCTTT ACACCTGCTT ATTTGCTGTC 1260
65 CTAACAGAGT TCGATGCTTT GAATCTATAA AAAGAAAAAT ATACTCGTGA TTCACGATTA 1320
66 TTTATATGAA AATATAATAA ATATTGAATT TCCTTTGCTA TTTCTTATGT TTAGCTCTTT 1380
67 ATATTTCAAA TTATTCACCC AATACTGACA AGCCTAGGCT CATCTCTAGG AAATTCTATC 1440
68 AATTTTTTTT TTGTTGTTAA CTAGTTAAAT TGGCAGCTTT AAAGATTATT GTAAAAATCA 1500
69 AGGCAACTTC CTCAAGTACT ACAACTAGAT TGAACATCC CACTCAAAAT GTCTAAAT 1560
70 TTTATAAAAT TTGACACATG AAACCAATGC ACAATAAATT TTAGTACTAT TGCAAGCATG 1620
71 GGCATAAAGC CATCATGTAT TATACTCAAA ATGGGCTCTT TTCAATTTG TCTTGTCTCC 1680
72 AAAATCCTTT TGTAGGTAAG ATGTTTCAAC AAGGAACTAT GACTCTTAAG GTAGACTTGG 1740
73 ACTCATAAGC TGTCTATAAC TCATAAAGAC TTGGAATATA ATAATTATTC ATTTAAATTA 1800
74 TAATTCTCTA CTTTAATATC TTCTACTATA AATACCTTT CAAAGCCTCA TTATTGTATC 1860
75 ATCAAACATT GATATTGATC TCTTCAATCT TTTGTATTCA CATATTCTAT TTATTCAATA 1920
76 CACTTAGGAA AACACTTTAC CAAGAAATTA AGATGAGAGG CTTCCTAATT ATTAAGTTG 1980
77 AAAAGCTCAA TCGAGATGAC ACAGCCACA CCATGSAAT GATCAAAGAT GCTTGTGAGA 2040
78 ATTGGGGCTT CTTTGAAGTA ATCATAAAAT ACATAAACAT ATTAATATGT TTGTTTCAAT 2100
79 TTATCAGTCA TACTTTCTCT TGTTTTAAAA TTAATGTCAC TTTCAATAAT TAATAATTCT 2160
80 CATGACATGT TTATAACACA ACAAGATATA GGTACATTT TGATACATTA TATATAACTT 2220
81 CTGTCACACG ACTCAAAAGT CTTTCTTAAT TTCTTGAATT CAATGATCGA TCAAACTAAG 2280
82 ACACGTAAAA TGAAACGGGG AATAGTAATT CTGTTTGCTT ATGTGATCAT TGTAGTTGCT 2340
83 GAAACATGGA ATTCACATG AACTAATGCA CACAGTAGAG AAAATGACAA AGGGACATTA 2400
84 CAAGAAGTGT ATGGAACAGA GTTTAAGCA ACTAGTGCCA AHAAGGGAC TTGAGGCTGT 2460
85 TCAAGCTGAG GTTACTTAAT TAACTTGAAG AAGCACTTTT TTCTTCTCTT ATTTCTAT 2520
86 TTCTAAATAT TCTAAATAT CAACTTTGA CAAAGAAATC AGTACATAT ATGATCTTA 2580
87 CATATGCGGT ATATATATAA TAAACAATA ATTTAAGTTA TATAGCTGA CAATATAAT 2640
88 AATATATATG CTCTAGTATA TAAAGTACA AACTATGAG AATTTTCTT AAAATTTT 2700
89 AGAAATTTGG TGAGGAGTTA CTTGACTTAC TCTGTGAAAA TCCTGGAATT GAAAAAGGTT 2760
90 ACTTGAAAAA TGCTTTTAT GGATCAAAAG GTCCCAACTT TGGTACTAAA GTTAGCAACT 2820
91 ATCCACCATG TCCTAAGCCC GATTGATCA AGGGACTCCG CGCTCATACA GACGCAGGAG 2880
92 GATCATACT TCTTTTCAA TATGAAAAA TGAGTGTCT TCAACTCTCT AAAGACGAGC 2940
93 AATGATGCA TTTTCTCTT ATGCTTAAT CTATTCTAT TAACTTTCTT GATTAAGTTT 3000
94 AGGTAAAGA TTACTTAAT TTTCTCTTT TTATCTAT AACTAGAA TATTAAGTTA 3060

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96 GGTGCACAGA STAATTGAT AAACAGACGG GACACGAATG TCATTAGCCT CATTTTACAA 3180
 97 TCCAGGAAGT ATGCCATTA TATATCAGC AAAAAGCTTG GTTGAAAAAG AGGCAGAGGA 3240
 98 AAGTACACAA GTGTATCCAA AGTTTGTGTT TGATGATTAC ATGAAGTTAT ATGCTGGACT 3300
 99 CAAGTTTCAG GCGAAAGAGC CAAGATTGTA AGCAATGAAG GCAATGGAAA GTGATCCAAT 3360
 100 TGCAASTGCT TAGATCCCAA TTCAATTAAA AAAATTGGTG TTGAAAAAT ATATTTAAAT 3420
 101 ATAGCAATCT ATGTATACAC ATTATTTGCT CTTCTTATGT ATGGTAGAAT AAAGTTAGTA 3480
 102 TTAAAAAAGA TTCTGATTTT TGCATATCT ATCAAAAAGA GTCCTAATAT TTGTATCTAT 3540
 103 AAATAAGGTG CTTCTTAGTG AAATATACA AATAATAATT TGGAGTGTAT TGTTCTTTCT 3600
 104 CATGTAATTT AATTTTAAG TATCTTACTT TACAATATAC TGTTCACTTA TTGAACATAT 3660
 105 TGAGTGATAT ATGACTCAA ? 3681

106 (2) INFORMATION FOR SEQ ID NO: 2:

107 (i) SEQUENCE CHARACTERISTICS:

108 (A) LENGTH: 12 base pairs

109 (B) TYPE: nucleic acid

110 (C) STRANDEDNESS: single

111 (D) TOPOLOGY: linear

112 (ii) MOLECULE TYPE: cDNA

113 (vii) IMMEDIATE SOURCE:

114 (b) CLONE: oligo dT-primed cDNA - page 13

115 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

116 CATTTCATCTC TTCAATCTTT TG 12

117 (2) INFORMATION FOR SEQ ID NO: 3:

118 (i) SEQUENCE CHARACTERISTICS:

119 (A) LENGTH: 16 base pairs

120 (B) TYPE: nucleic acid

121 (C) STRANDEDNESS: single

122 (D) TOPOLOGY: linear

123 (ii) MOLECULE TYPE: cDNA

124 (vii) IMMEDIATE SOURCE:

125 (b) CLONE: oligo dT-primed cDNA (SEQ3) page 13

126 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

127 CTTAATTTCT TGGTAAAGTG TTTTCC 26

W--> 132 1

Remove extra material at end of file

VERIFICATION SUMMARY

DATE: 08/14/2003

PATENT APPLICATION: US/10/085,418E

TIME: 14:15:36

Input Set : N:\jumbos\10085418\PTOMS.txt

Output Set: N:\CRF4\05192003\J085418E.raw

L:20 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:21 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:132 M:336 W: Invalid Amino Acid Number in Coding region, SEQ ID:3



05/19/2003
corrected to state name

OIPE

RAW SEQUENCE LISTING

DATE: 05/19/2003

PATENT APPLICATION: US/10/085,418E

TIME: 14:09:46

Input Set : N:\jumbos\10085418\PTOMS.txt

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3 (1) GENERAL INFORMATION:
 4 (i) APPLICANT: ZENECA LIMITED ., . .
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 11 (D) STATE: BERKSHIRE
 12 (E) UNITED KINGDOM *include*
 13 (F) ZIP: RG42 6ET *country*
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 23 (viii) ATTORNEY/AGENT INFORMATION:
 24 (A) NAME: Kakefuda, Mary
 25 (ix) TELECOMMUNICATION INFORMATION:
 26 (A) TELEPHONE: 919-765-5071

ERRORED SEQUENCES

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/085,418E

DATE: 05/19/2003

TIME: 14:09:47

Input Set : N:\jumbos\10085418\PTOMS.txt
Output Set: N:\CRF4\05192003\J085418E.raw

L:20 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:21 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:0 M:200 E: Mandatory Header Field missing, [(E) COUNTRY:] of (1)(iv)
L:132 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3